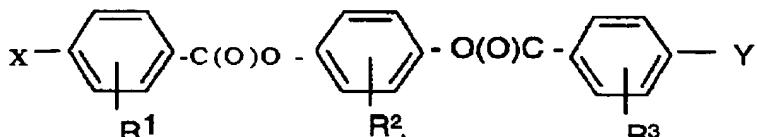


Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1.-185. (Canceled).

1 186. (Currently amended) Mesogens having the following formula:



2

3 wherein

4 X and Y independently are selected from the group consisting of amino groups, is a
5 polymerizable groups, and combinations thereof, provided that when X is
6 polymerizable group.

7 Y ~~is~~ consists essentially of an amino group;

8 R² is selected from the group consisting of t-butyl groups, isopropyl groups, and
9 secondary butyl groups; and

10 R^1 and R^3 are selected from the group consisting of hydrogen and a methyl group.

1 187. (Previously presented) The mesogens of claim 186 wherein said
2 polymerizable groups have polymerizable unsaturated carbon-carbon bond.

1 188. (Previously presented) The mesogens of claim 186 wherein said
2 polymerizable groups are selected from the group consisting of acryloyloxy alkoxy
3 groups and methacryloyloxy alkoxy groups having alkyl moiety with from 2 to 12 carbon
4 atoms.

1 189. (Currently amended) The mesogens of claim 188 wherein said alkyl
2 moiety consists essentially of from 2 to 12 carbon atoms and CH₂ groups optionally are
3 substituted by groups selected from the group consisting of oxygen, sulfur, and ester
4 groups; provided that from 2 to 12~~two or more~~ carbon atoms separate said oxygen from
5 said ester groups.

1 190. (Previously presented) The mesogens of claim 189 wherein said alkyl
2 moiety consists essentially of a total of from 2 to 9 carbon atoms.

1 191. (Previously presented) The mesogens of claim 189 wherein said alkyl

2 moiety consists essentially of a total of from 2 to 6 carbon atoms.

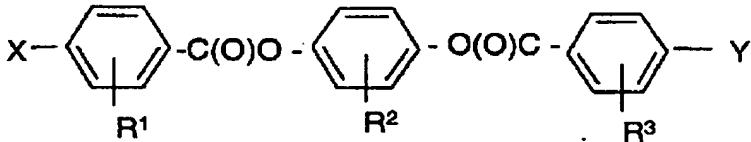
1 192.-195. (Canceled)

1 196. (Previously presented) The mesogens of claim 186 wherein one or more
2 members selected from the group consisting of X and Y is a cinnamoyloxy group.

1 197. (Previously presented) The mesogens of claim 194 wherein one or more
2 members selected from the group consisting of X and Y is a cinnamoyloxy group.

1 198. (Previously presented) The mesogens of claim 195 wherein one or more
2 members selected from the group consisting of X and Y is a cinnamoyloxy group.

1 199. (Previously presented) Mesogens having the following formula:



3 wherein

4 X is a polymerizable group selected from the group consisting of acryloyloxy alkoxy
5 groups and methacryloyloxy alkoxy groups having alkyl moiety with from 2 to 12
6 carbon atoms:

7 Y consists essentially of an amino group;

8 R² is selected from the group consisting of alkyl groups having from about 1 to 6 carbon
9 atoms and aryl groups; and

10 R^1 and R^3 are selected from the group consisting of hydrogen and a methyl group.

1 200. (Cancelled).

1 201. (Currently amended) The mesogens of claim 199 wherein said alkyl
2 moiety consists essentially of from 2 to 12 carbon atoms and CH₂ groups optionally are
3 substituted by groups selected from the group consisting of oxygen, sulfur, and ester
4 groups; provided that from two ~~2 to 12 or more~~ carbon atoms separate said oxygen from
5 said ester groups.

1 202. (Previously presented) The mesogens of claim 201 wherein said alkyl
2 moiety consists essentially of a total of from 2 to 9 carbon atoms.

1 203. (Previously presented) The mesogens of claim 201 wherein said alkyl
2 moiety consists essentially of a total of from 2 to 6 carbon atoms.

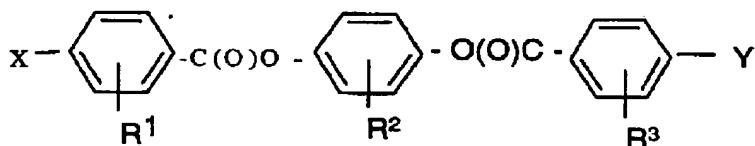
1 204.-207. (Canceled).

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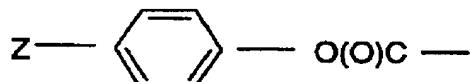
1 208. (Previously presented) The mesogens of claim 204 wherein one or more
2 members selected from the group consisting of X and Y is cinnamoyloxy group.

1 208. (Canceled)

1 209. (Currently amended) Mesogens having the following formula:



3 wherein X and Y independently are selected from the group consisting of spacer groups,
4 polymerizable groups, and combinations thereof, wherein one or more members
5 selected from the group consisting of X and Y have the following structure:



7 wherein Z is selected from the group consisting of spacer groups, terminal
8 functionalities, polymerizable groups, and combinations thereof, said spacer
9 groups being selected from the group consisting of H-(CH₂)_n-O- groups,
10 Cl(CH₂)_n-O- groups, Br(CH₂)_n-O- groups, I(CH₂)_n-O-, wherein n is from about 2
11 to about 12 wherein the CH₂ groups independently can be substituted by oxygen,
12 sulfur, or an ester group; provided that ~~at least~~from 2 to 12 carbon atoms separate
13 said oxygen or said ester group;

14 R² is selected from the group consisting of alkyl groups having from about 1 to 6 carbon
15 atoms and aryl groups; and

16 R^1 and R^3 are selected from the group consisting of hydrogen and a methyl group.

1 210. (Previously presented) The mesogens of claim 209 wherein X and Y
2 further consist essentially of functionalities independently selected from the group
3 consisting of hydroxyl groups, amino groups, and sulphydryl groups.

1 211. (Previously presented) The mesogens of claim 210 wherein n is from
2 about 2 to 9.

1 212. (Previously presented) The mesogens of claim 210 wherein n is from 2 to
2 6.

1 213. (Previously presented) The mesogens of claim 209 wherein said
2 polymerizable groups have alkyl moiety having polymerizable unsaturated carbon-carbon
3 bond.

1 214. (Previously presented) The mesogens of claim 210 wherein said
2 polymerizable groups have alkyl moiety having polymerizable unsaturated carbon-carbon
3 bond.

1 215. (Previously presented) The mesogens of claim 214 wherein said alkyl
2 moiety has from 2 to 9 carbon atoms.

1 216. (Previously presented) The mesogens of claim 214 wherein said alkyl
2 moiety has from 2 to 6 carbon atoms.

1 217. (Previously presented) The mesogens of claim 209 wherein R² is selected
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary
3 butyl groups, and phenyl groups.

1 218. (Previously presented) The mesogens of claim 210 wherein R² is selected
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary
3 butyl groups, and phenyl groups.

1 219. (Previously presented) The mesogens of claim 213 wherein R² is selected
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary
3 butyl groups, and phenyl groups.

1 220. (Previously presented) The mesogens of claim 214 wherein R² is selected
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary
3 butyl groups, and phenyl groups.

1 221. (Previously presented) The mesogens of claim 216 wherein R² is selected
2 from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary
3 butyl groups, and phenyl groups.

1 222.-223. (Canceled)

1 224. (Previously presented) The mesogens of claim 220 wherein R and R³ are
2 selected from the group consisting of hydrogen and methyl group.

1 225. (Previously presented) The mesogens of claim 221 wherein R and R³ are
2 selected from the group consisting of hydrogen and methyl group.

- 1 226. (Previously presented) The mesogens of claim 209 wherein one or more
- 2 members selected from the group consisting of X and Y is cinnamoyloxy group.
- 1 227. (Previously presented) The mesogens of claim 217 wherein one or more
- 2 members selected from the group consisting of X and Y is cinnamoyloxy group.
- 1 228. (Previously presented) The mesogens of claim 221 wherein one or more
- 2 members selected from the group consisting of X and Y is cinnamoyloxy group.